



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,562	01/04/2002	Keith L. Shippy	42390P12915	2307

8791 7590 04/05/2007
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA 90025-1030

EXAMINER

SHANG, ANNAN Q

ART UNIT	PAPER NUMBER
----------	--------------

2623

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/040,562

Applicant(s)

SHIPPY ET AL.

Examiner

Annan Q. Shang

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4,6-8,11 and 21-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4,6-8,11 and 21-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 4, 6-8, 11 and 21-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Herz et al (6,088,722)** in view of **Kocher (6,539,092)**.

As to claims 1 and 4, note the **Herz** reference figures 1-6, discloses a system and method for scheduling broadcast of and access to video programs and other data using customer profiles and further discloses a method of updating cryptographic (encrypted or content protection) software for deterring unauthorized access to PPV audio-visual content on a client device (figs.9-11, Set-top Multimedia Terminal 'STMT' 412) comprising:

Receiving (at Headend 'HE' which includes billing log database, Data Collection 508) billing log data (usage history or programs, movies, etc., watched) from the client device (STMT-412), the billing log data specifying past consumption of pay-per-view (PPV) audio-visual content received by the client device from the server (HE) over a broadcast network (Cable, Satellite, etc., col.9, lines 29-67) during a selected period of time (figs.1-3, col.25, line 42-col.27, line 10, col.38, line 65-col.39, line 66, col.44, lines 20-65, col.45, line 6-col.47, line 1+ and col.49, lines 27-63); and

Downloading an update for the of encrypted software resident (PPV EPG data) for deterring unauthorized access to PPV AV content resident on the client device from the server, the content protection software, when executing on the client device, for decrypting the PPV audio-visual content and controlling consumption of the PPV audio-visual content, the downloading being performed when the received billing log data indicates consumption of PPV audio-visual content by the client device at less than a predetermined threshold for the selected period of time (col.22, line 64-col.24, line 11, col.25, line 42-col.27, line 10, line 39-col.28, line 46, col.31, line 5-col.32, line 1+, col.41, line 65-col.43, line 65 and col.44, line 20-col.45, line 37), note that HE polls the STMT for number of movies or PPV watched and if the number is less than a predetermined threshold HE updates the encrypted PPV EPG or program schedule accordingly based on the time, day, week, etc.

Herz is silent to the use of cryptographic software for deterring unauthorized access to PPV AV content.

However, note the **Kocher** reference figures 1-4, discloses cryptographic indexed key update on a client device, where the system repeatedly enables updates secret key value at anytime, for example before each transaction (col.3, line 34-col.4, line 13 and col.5, line 64-col.6, line 52).

Therefore it would been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Kocher into the system of Herz to provide additional security to the system and prevent hackers from being able to access the secret key value.

As to claims 6-7, Herz further discloses where the content protect software resident on the client comprises tamper resistant software and where the updated client device software comprises a new cryptographic key (col.45, line 6-col.47, line 8 and line 61-col.48, line 36).

As to claims 8 and 11, the claimed "An article comprising: a storage medium having a plurality of machine accessible instructions..." is composed of the same structural elements that were discussed with respect to the rejection of claims 1 and 4.

As to claim 21, the claimed "A server..." is composed of the same structural elements that were discussed with respect to the rejection of claims 1 and 4; the claimed "a client software manager configured to receive billing log data..." is met by System Controller/Distribution System 506/504 of the HE.

Claims 22-23 are met as previously discussed with respect to claims 6-7.

Claims 24-26 are met as previously discussed with respect to claims 6-7.

Claim 27 is met as previously discussed with respect to claims 1 and 4.

Claims 28-30 are met as previously discussed with respect to claims 6-7.

Claim 31 is met as previously discussed with respect to claims 1 and 4.

Response to Arguments

3. Applicant's arguments/amendment with respect to claims 1, 4, 6-8, 11 and 21-31 have been considered but are moot in view of the new ground(s) of rejection. The amendment to all the independent claims necessitated the new ground(s) of rejection discussed above. **This office action is made Final.**

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Thomlinson et al (6,532,542) disclose protected storage of core data secrets.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

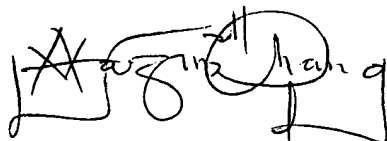
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.

Art Unit: 2623

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC)** at **866-217-9197 (toll-free)**. If you would like assistance from a **USPTO Customer Service Representative** or access to the automated information system, call **800-786-9199 (IN USA OR CANADA)** or **571-272-1000**.

A handwritten signature in black ink, appearing to read 'Annan Q. Shang', with a stylized, cursive script.

Annan Q. Shang